

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US5745182 A 19980428 [US5745182]

TI - (A) Method for determining motion compensation

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN - (A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

AP- US27801094 19940720 [1994US-0278010]

FD -

Divsn of US970046 19921102 [1992US-0970046]

Division of: US5369449

PR-

JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004]

US27801094 19940720 [1994US-0278010]

US97004692 19921102 [1992US-0970046]

IC -

(A) H04N-007/32

EC - H04N-005/14M2

H04N-007/26P36E

H04N-007/36E

H04N-007/36E4

H04N-007/36E8

PCL - ORIGINAL (O) : 375240160; CROSS-REFERENCE (X) : 348699000

DT - Basic

CT - US4691230; US4862266; US4864294; US4989089; US4998168; US5021881; US5027205; US5036393; US5049991; US5072293; US5093720; US5105271; US5132792; US5138446; US5142361; US5144427; US5157742; US5162907; US5175618; US5191414; US5200820; US5210605; US5424779; US5436674; EP0395440 A2; EP0395271 A2; EP0447068 A2; EP0484140 A2

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Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

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Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding" CCITT SGXV Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991.

Shuji Inoue, et al "Motion Compensation Method for Interlace Video" Spring conference of the Institute of Electronics Information and Communication Engineers of Japan, 1992.

STG- (A) United States patent

AB - A method for predicting motion compensation for determining of an input image based on a motion vector of the input image from this input image to a reference image which has been

sampled at a first set time, and the method includes calculating a motion vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a motion vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move compensation of the input image is calculated both from the motion vector of the input image and from the motion vector of the reference image, to thereby realize a method for determining motion compensation with high precision.

1 / 1 LGST - ©LEGSTAT

PN- US 5745182 [US5745182]

AP- US 278010/94 19940720 [1994US-0278010]

DT- US-P

ACT - 19940720 US/AE-A

APPLICATION DATA (PATENT)

US 278010/94 19940720 [1994US-0278010]

19980428 US/A

PATENT

20000613 US/RF

REISSUE APPLICATION FILED

20000427

UP - 2000-24

1 / 1 CRXX - ©CLAIMS/RRX

PN - 5,745,182 A 19980428 [US5745182]

PA - Matsushita Electric Industrial Co Ltd JP

ACT- 20000427 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20000613

REISSUE REQUEST NUMBER: 09/559627

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

20010413 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20030429

REISSUE REQUEST NUMBER: 09/833680

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20030429

REISSUE REQUEST NUMBER: 09/833769

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20030429

REISSUE REQUEST NUMBER: 09/833770

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

20010530 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20030429

REISSUE REQUEST NUMBER: 09/866811

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:

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11148435

Basic Patent (No,Kind,Date): CA 2082280 AA 19930509 <No. of Patents: 016>

Patent Family:

| Patent No   | Kind | Date     | AppliC No   | Kind. | Date             |
|-------------|------|----------|-------------|-------|------------------|
| AU 637289   | B1   | 19930520 | AU 9228162  | A     | 19921104         |
| CA 2082280  | AA   | 19930509 | CA 2082280  | A     | 19921105 (BASIC) |
| CA 2082280  | C    | 19950207 | CA 2082280  | A     | 19921105         |
| DE 69225863 | C0   | 19980716 | DE 69225863 | A     | 19921106         |
| DE 69225863 | T2   | 19981022 | DE 69225863 | A     | 19921106         |
| EP 541389   | A2   | 19930512 | EP 92310187 | A     | 19921106         |
| EP 541389   | A3   | 19940330 | EP 92310187 | A     | 19921106         |
| EP 541389   | B1   | 19980610 | EP 92310187 | A     | 19921106         |
| JP 5130594  | A2   | 19930525 | JP 91293004 | A     | 19911108         |
| JP 6030395  | A2   | 19940204 | JP 92181980 | A     | 19920709         |
| JP 2929044  | B2   | 19990803 | JP 91293004 | A     | 19911108         |
| JP 2938677  | B2   | 19990823 | JP 92181980 | A     | 19920709         |
| KR 9506774  | B1   | 19950622 | KR 9220769  | A     | 19921106         |
| US 5369449  | A    | 19941129 | US 970046   | A     | 19921102         |
| US 5745182  | A    | 19980428 | US 278010   | A     | 19940720         |
| US 5978032  | A    | 19991102 | US 883315   | A     | 19970626         |

Priority Data (No,Kind,Date):

JP 91293004 A 19911108  
JP 92181980 A 19920709  
US 278010 A 19940720  
US 970046 A 19921102  
US 883315 A 19970626  
US 278010 A3 19940720

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 637289 B1 19930520  
METHOD FOR PREDICTING MOVE COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
AppliC (No,Kind,Date): AU 9228162 A 19921104  
IPC: \* G06F-015/70; G06F-015/68; H04N-007/137  
Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 2082280 AA 19930509  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
AppliC (No,Kind,Date): CA 2082280 A 19921105  
IPC: \*) H04N-007/12  
Language of Document: English  
Patent (No,Kind,Date): CA 2082280 C 19950207  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applie (No,Kind,Date): CA 2082280 A 19921105  
IPC: \* H04N-007/12  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69225863 C0 19980716  
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
Applie (No,Kind,Date): DE 69225863 A 19921106  
IPC: \* H04N-007/24; H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: German  
Patent (No,Kind,Date): DE 69225863 T2 19981022  
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
Applie (No,Kind,Date): DE 69225863 A 19921106  
IPC: \* H04N-007/24; H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):  
DE 69225863 P 19980716 DE REF CORRESPONDS TO (ENTSPRICHT)

DE 69225863 P 19980716 EP 541389 P 19980716  
TRANSLATION OF PATENT  
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND  
HAS BEEN PUBLISHED (UEBERSETZUNG DER  
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST  
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)  
DE 69225863 P 19990708 DE 8364 NO OPPOSITION DURING TERM OF  
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE  
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541389 A2 19930512  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709  
Applie (No,Kind,Date): EP 92310187 A 19921106  
Designated States: (National) BE; DE; FR; GB; NL; SE  
IPC: \* H04N-007/13  
Derwent WPI Acc No: ; G 93-154317  
Language of Document: English  
Patent (No,Kind,Date): EP 541389 A3 19940330  
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A

19920709

Applic (No,Kind,Date): EP 92310187 A 19921106

Designated States: (National) BE; DE; FR; GB; NL; SE

IPC: \* H04N-007/13

Derwent WPI Acc No: \* G 93-154317

JAPIO Reference No: \* 170511E000053

Language of Document: English

Patent (No,Kind,Date): EP 541389 B1 19980610

METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)

Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): EP 92310187 A 19921106

Designated States: (National) BE; DE; FR; GB; NL; SE

IPC: \* H04N-007/24; H04N-007/32

Derwent WPI Acc No: \* G 93-154317

JAPIO Reference No: \* 170511E000053; 180246E000083

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

|           |   |          |        |   |
|-----------|---|----------|--------|---|
| EP 541389 | P | 19911108 | EP AA  | PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))  |
| EP 541389 | P | 19920709 | EP AA  | PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))  |
| EP 541389 | P | 19921106 | EP AE  | EP-APPLICATION (EUROPAEISCHE ANMELDUNG)   |
| EP 541389 | P | 19930512 | EP AK  | DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN) |
| EP 541389 | P | 19930512 | EP A2  | PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)                                 |
| EP 541389 | P | 19940330 | EP AK  | DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)                                     |
| EP 541389 | P | 19940330 | EP A3  | SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))                       |
| EP 541389 | P | 19941019 | EP 17P | REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)<br>940818  |
| EP 541389 | P | 19951220 | EP 17Q | FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID)<br>951102   |
| EP 541389 | P | 19980610 | EP AK  | DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)           |

BE DE FR GB NL SE  
EP 541389 P 19980610 EP B1 PATENT SPECIFICATION  
(PATENTSCHRIFT)  
EP 541389 P 19980716 EP REF CORRESPONDS TO:  
(ENTSPRICHT)  
DE 69225863 P 19980716  
EP 541389 P 19980911 EP ET FR: TRANSLATION FILED (FR:  
TRADUCTION A ETE REMISE)  
EP 541389 P 19990602 EP 26N NO. OPPOSITION FILED (KEIN  
EINSPRUCH EINGELEGT)  
EP 541389 P 20020101 GB IF02/REG EUROPEAN PATENT IN FORCE AS  
OF 2002-01-01

JAPAN (JP)

Patent (No,Kind,Date): JP 5130594 A2 19930525  
DEVICE FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES  
(English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
Author (Inventor): INOUE SHUJI  
Priority (No,Kind,Date): JP 91293004 A 19911108  
Applic (No,Kind,Date): JP 91293004 A 19911108  
IPC: \* H04N-007/137; H03M-007/30  
JAPIO Reference No: ; 170511E000053  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 6030395 A2 19940204  
METHOD FOR PREDICTING MOTION COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI  
Priority (No,Kind,Date): JP 92181980 A 19920709  
Applic (No,Kind,Date): JP 92181980 A 19920709  
IPC: \* H04N-007/137  
JAPIO Reference No: ; 180246E000083  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 2929044 B2 19990803  
Priority (No,Kind,Date): JP 91293004 A 19911108  
Applic (No,Kind,Date): JP 91293004 A 19911108  
IPC: \* H04N-007/32; H03M-007/30  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 2938677 B2 19990823  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD  
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI  
Priority (No,Kind,Date): JP 92181980 A 19920709  
Applic (No,Kind,Date): JP 92181980 A 19920709  
IPC: \* H04N-007/32  
Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9506774 B1 19950622  
MOTION COMPENSATION PREDICTIVE METHOD (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)  
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A  
19920709  
Applic (No,Kind,Date): KR 9220769 A 19921106  
IPC: \* H04N-007/24  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5369449 A 19941129  
METHOD FOR PREDICTING MOVE COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A  
19911108  
Applic (No,Kind,Date): US 970046 A 19921102  
National Class: \* 348699000; 348416000  
IPC: \* H04N-007/137  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: English  
Patent (No,Kind,Date): US 5745182 A 19980428  
METHOD FOR DETERMINING MOTION COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): US 278010 A 19940720; JP 91293004 A  
19911108; JP 92181980 A 19920709; US 970046 A3 19921102  
Applic (No,Kind,Date): US 278010 A 19940720  
Addnl Info: 5369449 Patented  
National Class: \* 348416000; 348699000  
IPC: \* H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: English  
Patent (No,Kind,Date): US 5978032 A 19991102  
METHOD FOR PREDICTING MOTION COMPENSATION (English)  
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)  
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)  
Priority (No,Kind,Date): US 883315 A 19970626; JP 91293004 A  
19911108; JP 92181980 A 19920709; US 278010 A3 19940720; US  
970046 A3 19921102  
Applic (No,Kind,Date): US 883315 A 19970626  
Addnl Info: 5745182 Patented; 5369449 Patented  
National Class: \* 348416000; 348699000  
IPC: \* H04N-007/32  
Derwent WPI Acc No: \* G 93-154317  
JAPIO Reference No: \* 170511E000053; 180246E000083  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):  
US 5369449 P 19911108 US AA PRIORITY (PATENT)  
JP 91293004 A 19911108  
US 5369449 P 19920709 US AA PRIORITY (PATENT)  
JP 92181980 A 19920709  
US 5369449 P 19921102 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 970046 A 19921102  
US 5369449 P 19921102 US AS02 ASSIGNMENT OF ASSIGNOR'S  
INTEREST  
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006,  
OAZA KADOMA, KADOMA-SHI OSAKA, JAP;  
YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI :  
19921028  
US 5369449 P 19941129 US A PATENT  
US 5745182 P 19911108 US AA PRIORITY (PATENT)  
JP 91293004 A 19911108  
US 5745182 P 19920709 US AA PRIORITY (PATENT)  
JP 92181980 A 19920709

US 5745182 P 19921102 US AA PRIORITY  
US 970046 A3 19921102  
US 5745182 P 19940720 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 278010 A 19940720  
US 5745182 P 19980428 US A PATENT  
US 5745182 P 20000613 US RF REISSUE APPLICATION FILED  
(REISSUE APPL. FILED)  
20000427  
US 5978032 P 19911108 US AA PRIORITY (PATENT)  
JP 91293004 A 19911108  
US 5978032 P 19920709 US AA PRIORITY (PATENT)  
JP 92181980 A 19920709  
US 5978032 P 19921102 US AA PRIORITY  
US 970046 A3 19921102  
US 5978032 P 19940720 US AA PRIORITY  
US 278010 A3 19940720  
US 5978032 P 19970626 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 883315 A 19970626  
US 5978032 P 19991102 US A PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5745182

<=1> GET 1st DRAWING SHEET OF 6  
<=32> Link to Claims Section

April 28, 1998

LEXIS-NEXIS  
Library: PATENT  
File: ALL

## Method for determining motion compensation

REISSUE: Reissue Application filed Apr. 27, 2000 (O.G. Jun. 13, 2000) Ex. Gp.: 2713; Re. S.N. 09/559,627, (O.G. June 13, 2000)  
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,680 (O.G. April 29, 2003)  
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,769 (O.G. April 29, 2003)  
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,770 (O.G. April 29, 2003)  
May 30, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/866,811 (O.G. April 29, 2003)

INVENTOR: Yukitake, Takeshi - Yokohama, Japan (JP); Inoue, Shuji - Yokohama, Japan (JP)

APPL-NO: 278010 (08)

FILED-DATE: July 20, 1994

GRANTED-DATE: April 28, 1998

PRIORITY: November 8, 1991 - 3293004, Japan (JP); July 9, 1992 - 4181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, Japan (JP), 03

LEGAL-REP: Watson Cole Stevens Davis, PL

PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A)

LEGAL-REP: Watson Cole Stevens Davis PL

PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Division of Ser. No. 07/970046, November 2, 1992, GRANTED 5369449

US-MAIN-CL: 375#240.16

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CL: 375, 348

SEARCH-FLD: 348#413, 348#416, 348#699, 348#400.-402, 348#407, 348#409.-412, 348#384, 348#390, 348#415

IPC-MAIN-CL: 6H 04N007#32

PRIM-EXMR: Lee, Richard

REF-CITED:

- <=2> 04691230, September, 1987, Kaneko et al., United States (US), 348699
- <=3> 04862266, August, 1989, Gillard, United States (US), 348699
- <=4> 04864294, September, 1989, Gillard, United States (US)
- <=5> 04989089, January, 1991, Chantelou et al., United States (US)
- <=6> 04998168, March, 1991, Gillard, United States (US), 348699
- <=7> 05021881, June, 1991, Avis et al., United States (US), 348699
- <=8> 05027205, June, 1991, Avis et al., United States (US), 348699
- <=9> 05036393, July, 1991, Samad et al., United States (US), 348699
- <=10> 05049991, September, 1991, Niihara, United States (US), 358105
- <=11> 05072293, December, 1991, De Haan et al., United States (US), 348699
- <=12> 05093720, March, 1992, Krause et al., United States (US), 358133
- <=13> 05105271, April, 1992, Niihara, United States (US), 358105
- <=14> 05132792, July, 1992, Yonemitsu et al., United States (US), 358105
- <=15> 05138446, August, 1992, Guichard et al., United States (US), 348699
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